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Fiber Optic Taper For 18mm to ½" Sensor (Recertified 05-P)

Stock **#55-136-RCD-05P** RECERTIFIED **1 In Stock**

- 1 + **C$1,505**.00

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General

Core/ Clad Ratio:
70 / 30

Physical & Mechanical Properties

Diameter Tolerance (mm):
±0.5, Large End

Height (mm):
20.00

Diameter of Large End (mm):
20.00

Size Ratio:

18:½" CCD

Size of Small End (mm):
6.4 x 4.8

Thickness Tolerance (mm):
±0.1

Dimensional Tolerance (mm):
±0.1

Optical Properties

Distortion (%):
3.00

Substrate:
Schott 24 Glass with EMA

Numerical Aperture NA:
1.00

Resolution:
102 lp/mm

Surface Quality:
30-20

Resolving Power (µm):
6.00

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.8

Environmental & Durability Factors

Operating Temperature (°C):
-10 to +300

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Coherent Arrangement of Fibers
- Made with EMA Fibers to Absorb Light
- Round-to-Round or Round-to-Rectangular Tapers Types Available

Fiber Optic Tapers utilize a coherent fiber optic plate that transmits either a magnified or reduced image from its input surface to its output surface. These low distortion tapers are made with EMA Fibers to absorb light and are optimized for 1/2” or 2/3” sensor chip sizes. Magnification is a ratio of the diameters of the large and small ends of the tapers. Typical applications include image magnification or reduction, sensor coupling, fluoroscopy, and light sensors.

Fiber Optic Faceplates transmit images from input surface to output surface using coherent fibers. Common uses include CRT/LCD displays, sensor coupling, X-ray imaging and image intensification. All tapers and faceplates are suitable for visible and NIR applications and feature beveled edges.

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